

SPSS Output Review

Practice Question

Use the following output to answer the questions below:

**Statistics**

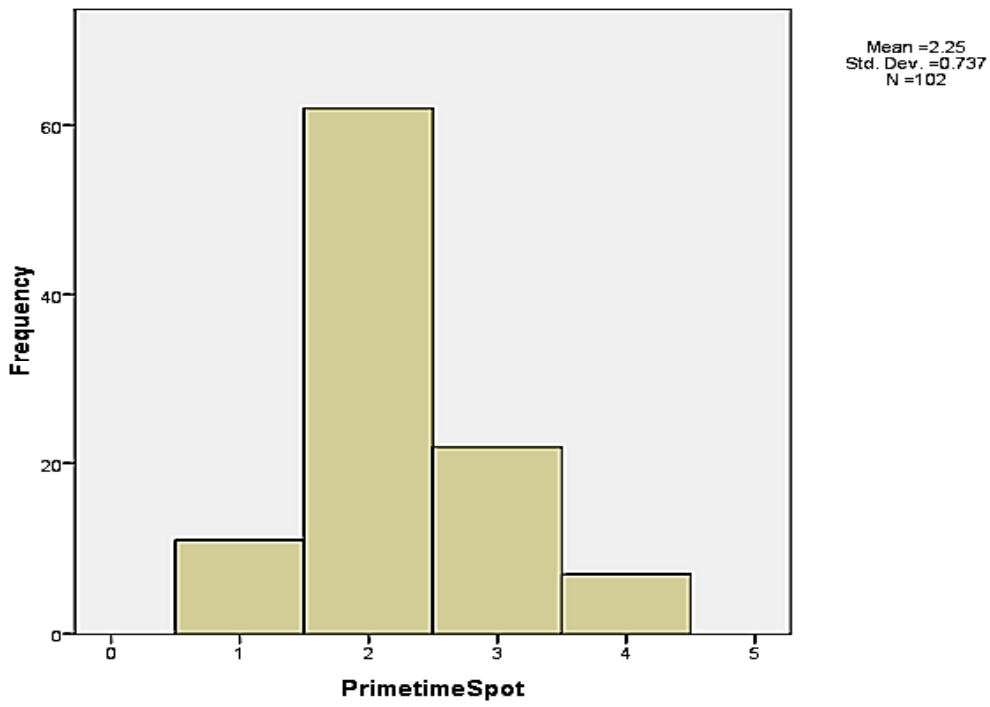
PrimetimeSpot

N	Valid	102
	Missing	284
Mean		2.25
Median		2.00
Mode		2
Std. Deviation		.737
Variance		.543
Range		3
Percentiles	25	2.00
	75	3.00

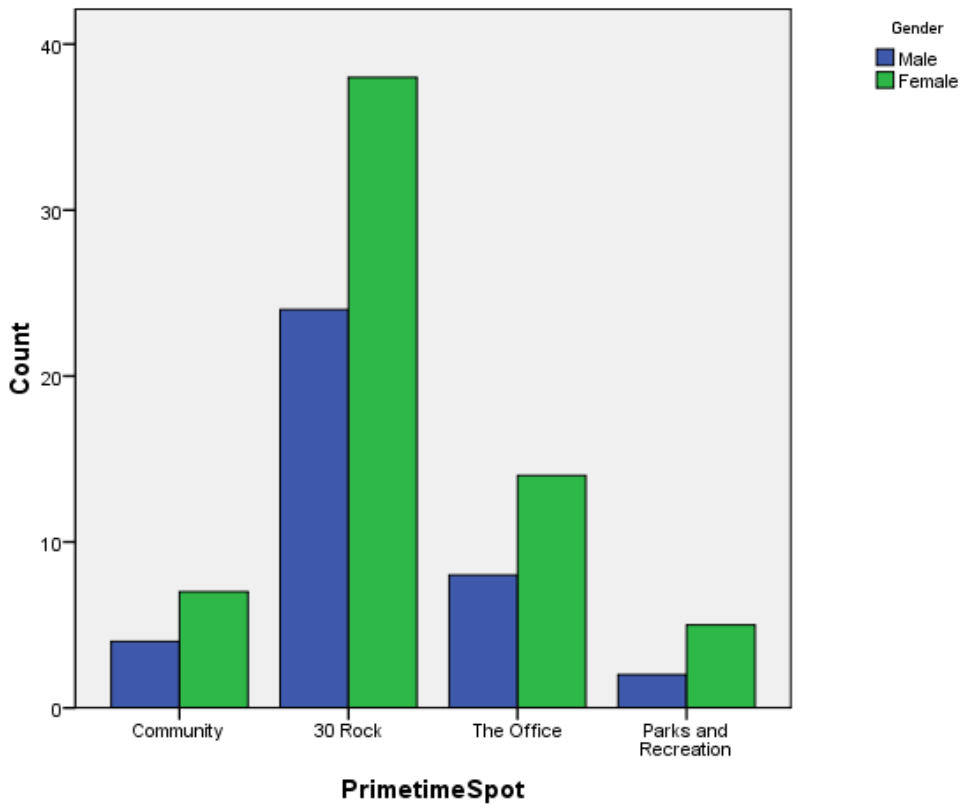
**PrimetimeSpot**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Community	11	2.8	10.8	10.8
	30 Rock	62	16.1	60.8	71.6
	The Office	22	5.7	21.6	93.1
	Parks and Recreation	7	1.8	6.9	100.0
	Total	102	26.4	100.0	
Missing	System	284	73.6		
Total		386	100.0		

Graph 1



Graph 2



NBC has recently decided to move one of its Thursday night primetime shows to a much later time in order to make room for a new hit series. In an effort to make sure that they don't move a show that is most popular among viewers, the network has created an online poll asking viewers which one show should definitely not be moved. Their choices were given in the following order:

- (1) Community
- (2) 30 Rock
- (3) The Office
- (4) Parks and Recreation

Based on the results shown in this output, please answer the following questions:

1. How many individuals participated in this survey about NBC's Thursday night lineup?

**n=102**

2. Which of the four shows did participants most want to stay in its current primetime spot? How do you know this? What percentage of participants chose this show?

**The majority of participants wanted 30 Rock to stay. The mode shown in the output is 2, meaning that 30 Rock was chosen most frequently among participants. 60.8% of participants chose this option.**

3. How many people wanted The Office to stay? How do you know this?

**22 participants chose The Office. This can be found in the output under frequency.**

4. Which measure of central tendency (mean, median, or mode) is most appropriate to use when describing this data? What is its value according to the output?

**The mode is the best measure of central tendency to use when describing nominal data. The mode of this set of data is 2.**

5. What type of graph is Graph 1? Is it an appropriate graph to use for this data? Why or why not?

**Graph 1 is a histogram and is not an appropriate graph to use for this data. Histograms are used for continuous (interval or ratio) data. The data from this output is nominal.**

6. What type of graph is Graph 2? Is it an appropriate graph to use for this data? Why or why not? What does this graph tell us about?

**Graph 2 is a clustered bar graph and is an appropriate graph to use for this data. Bar graphs are used for discrete data, which includes nominal data. This graph is showing us the number of participants who chose each show in terms of gender. In other words, how many male participants and how many female participants chose different shows. More females overall responded than males, and 30 Rock was the most popular show for both males and females.**